

Sheet 3 (Macros & Pointers)

Problem 1

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
// This program used to define a macro

#define PI 3.14
```

Problem 2

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
// This program used to define a macro for add and multiply
#define sum(a,b) a+b
#define mul(x,y) x*y
#include <iostream.h>

void main( )
{
    int v1=10,v2=20;
    cout<<"The Sum is: "<<sum(v1,v2)<<endl;
    cout<<"The Product is: "<<mul(v1,v2)<<endl;
}
```

Problem 3

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012

#include <iostream.h>
void main( )
{
    int a;
    int *aptr;
    a=7;
    aptr=&a;

    cout<<&a<<endl;
    cout<<aptr<<endl;

    cout<<a<<endl;
    cout<<*aptr<<endl;

    cout<<&*aptr<<endl;
    cout<<*&aptr<<endl;

    cout<<&aptr<<endl;
}
```